

27 JUN 1979

MEMORANDUM FOR: Chief, Plans & Programs Staff, OL

VIA : Chief, Real Estate & Construction  
Division, OL

25X1 FROM : [REDACTED]  
Chief, Headquarters Engineering Branch,  
RECD/OL

SUBJECT : Estimated Energy Savings Re Summer Boilers  
and Closing the Director's Garage

REF : Memo dtd 15 Jun '79 from C/HEB/RECD/OL  
to C/P&PS/OL, Subj: Annual Report on  
Energy Management

25X1 1. Regarding telephone conversations between [REDACTED]  
[REDACTED] and a member of my staff, a requirement exists to  
quantify the possible energy savings and construction costs  
associated with the studies summarized in paragraphs 3(c)  
and 3(d) of the reference. Accordingly, the following is  
submitted:

a. Summer Boilers.

By installing small boilers in the Head  
quarters kitchen and in the Printing & Photo-  
graphy Building, a large 50,000 pound per hour  
boiler in the Powerplant could be secured. The  
savings would accrue from having a more effi-  
ciently sized boiler serving the load, and  
since the boilers would be near the load, the  
saving of the transmission line losses would be  
significant. Presently the June boiler consumption  
is running between 1.5 to 2 gallons per minute.  
The summer boilers would probably burn no more  
than the equivalent of 0.75 gallons per minute  
for a saving of from 0.75 to 1.25 gallons per  
minute equivalent. (As one of the boilers would  
burn gas, an equivalent in fuel oil is used for

OL 9 2545

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this comparison). The saving in fuel for the summer months of July and August would therefore be between 22,320 gallons and 37,200 gallons equivalent of fuel oil rated at 102,000 BTU's per gallon. The construction cost is guesstimated to be in the \$110,000 to \$125,000 range.

b. Close the Director's Garage

The Director's garage exhausts air on a 24-hour per day basis to preclude the accumulation of gasoline and exhaust fumes. During the winter, cold air is brought in from the outside, heated to prevent the freezing of utility pipes and exhausted. The fuel used to heat this exhausted air is estimated to be between 28,750 gallons and 57,500 gallons per winter. Abandoning this space would produce a similar fuel saving. Some construction would be involved as the driveway door would be changed from an open grill style to a solid style to prevent the influx of outside air. This construction cost is guesstimated to be between \$6,000 and \$9,000.

2. The above information has been assembled rather quickly and will become more refined as the studies are completed.



25X1

Memo dated 15 June 1979 from C/LSD/OL to C/P&PS/OL;  
subject: Reduction of Energy Use (OL 9 10,061)

Paragraph 1.b.

36,000 miles @ 12 mpg = 3000 gal. (gasoline)

Paragraph 1.d.

4000 gallons = approximates 1600 gallon diesel fuel  
and 2400 gallon gasoline.

TOTAL MOTOR POOL VEHICLES (TVA)

Sedans	52
Station Wagons	21
Vans/Carryalls	30
Trucks	10
Checker Limousines	3
Buses	<u>10</u>
TOTAL	<u>126</u>

NOTE: Total Agency Vehicles: 198

FLEET AVERAGE MILES PER GALLON

Sedans, Station Wagons, Vans	12 mpg
Buses, Trucks, Limousines	<u>6 mpg</u>
Weighted Average	<u>9 mpg</u>

FY 1979 (1st half) FUEL USAGE

Leaded Gasoline:	45,358 gal.
Unleaded Gasoline:	43,303 gal.
Diesel Fuel:	<u>5,753 gal.</u>
TOTAL	<u>94,414 gal.</u>

FY 1978 TOTAL FUEL USAGE

Leaded Gasoline:	75,711 gal.
Unleaded Gasoline:	104,909 gal.
Diesel Fuel:	<u>11,068 gal.</u>
TOTAL	<u>191,688 gal.</u>

FY 1978 TOTAL FUEL COSTS

Leaded Gasoline:	\$45,001
Unleaded Gasoline:	67,513
Diesel Fuel:	<u>5,355</u>
TOTAL	<u>\$117,869</u>

NOTE: Average price per gallon was 61.5 cents.

TOTAL FUEL USAGE, 1 Oct 1974 - 30 September 1975

Leaded/Unleaded Gasoline:	155,006 gal.
Diesel Fuel:	<u>- 0 -</u>
TOTAL	<u>155,006 gal.</u>

TOTAL FUEL COSTS, 1 October 1974 - 30 September 1975

Leaded/Unleaded Gasoline:	\$55,583
Diesel Fuel	<u>- 0 -</u>
TOTAL	<u>\$55,583</u>

NOTE: Average price per gallon was 33.8 cents.